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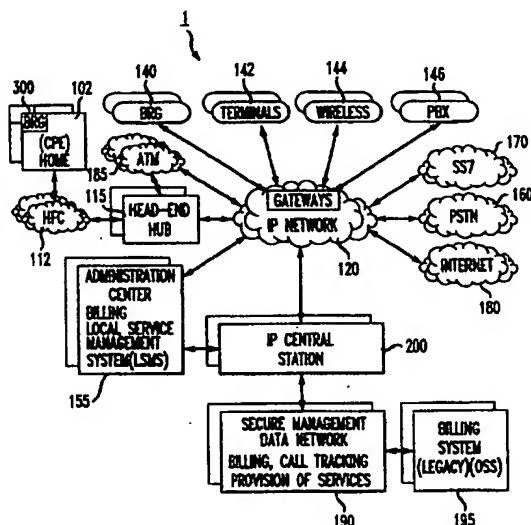
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(54) IP leased line

(57) The present invention includes a method, system and computer program product for providing for transmission of internet protocol traffic along a transmission path in a broadband communication system such that a virtual leased IP line provides a guaranteed minimum bandwidth. In one embodiment, the method includes the steps of requesting, by a user, reservation of a guaranteed minimum bandwidth sufficient for a predetermined IP traffic usage; selecting automatically and dynamically, by a call manager in response to requesting by the user, a transmission path for the virtual leased IP line wherein the path provides at least the guaranteed minimum bandwidth sufficient to accommodate the predetermined IP traffic usage; and reserving, by the call manager, the bandwidth for the transmission path.

FIG. 1



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## EUROPEAN SEARCH REPORT

Application Number  
EP 00 12 8138

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Incl.7)
X Y Y	<b>WO 99 53719 A (WARPSPEED COMMUNICATIONS)</b> <b>21 October 1999 (1999-10-21)</b>  * abstract * * page 1, line 1 - line 9 * * page 1, line 34 - page 2, line 1 * * page 2, line 9 - line 12 * * page 2, line 17 - line 20 * * page 4, line 33 - page 5, line 3 * * page 5, line 19 - line 22 * * page 5, line 35 - page 6, line 5 * * page 6, line 32 - page 7, line 11 * * page 7, line 16 - line 34 * * page 8, line 7 - line 16 * * page 8, line 20 - line 34 * * page 10, line 10 - line 14 * * page 11, line 25 * * page 12, line 15 - line 24 * * page 12, line 30 - line 35 * * page 14, line 5 - line 8 *	1-7, 12-16 8-11 17	<b>H04L12/56</b>
Y	<b>WO 99 44352 A (U TEL INC)</b> <b>2 September 1999 (1999-09-02)</b> * abstract * * page 4, line 28 - page 5, line 8 * * page 6, line 11 - line 14 * * page 7, line 21 - line 28 * * claims 1,19 *  --- -/--	8-11	<b>H04L</b>
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>29 June 2001</b>	Examiner <b>La1, C</b>
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document  T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons  & : member of the same patent family, corresponding document			



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# EUROPEAN SEARCH REPORT

Application Number  
EP 00 12 8138

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Y A	<p>EP 0 848 560 A (ROLM SYSTEMS) 17 June 1998 (1998-06-17)</p> <p>* abstract *</p> <p>* column 4, line 1 - line 50 *</p> <p>* column 5, line 41 - column 6, line 12 *</p> <p>* column 7, line 52 - line 58 *</p> <p>* column 8, line 27 - line 41 *</p>	<p>17</p> <p>1-7, 12-16</p>	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		29 June 2001	Lat, C
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone</p> <p>Y : particularly relevant if combined with another document of the same category</p> <p>A : technological background</p> <p>O : non-written disclosure</p> <p>P : intermediate document</p> <p>T : theory or principle underlying the invention</p> <p>E : earlier patent document, but published on, or after the filing date</p> <p>D : document cited in the application</p> <p>L : document cited for other reasons</p> <p>&amp; : member of the same patent family, corresponding document</p>			

ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

EP 00 12 8138

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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29-06-2001

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 9953719	A	21-10-1999	AU	3552199 A	01-11-1999
			EP	1070436 A	24-01-2001
WO 9944352	A	02-09-1999	US	6219409 B	17-04-2001
			AU	2787999 A	15-09-1999
			EP	1064775 A	03-01-2001
EP 0848560	A	17-06-1998	US	5898668 A	27-04-1999